

# Curriculum Vitae

## Sourabh Dube

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## Education

- **Ph.D. (Physics)** October 2008: Rutgers, The State University of New Jersey  
Thesis: [“Search for Supersymmetry at the Tevatron using the Trilepton Signature”](#)  
Thesis Advisor: Prof. Sunil Somalwar
- **B.Sc. (Physics)** May 2001: University of Pune, India (2001)
- **Diploma (Scientific Computing)** : Fergusson College Consortium (2000)

## Positions

- Mar. 2009 – present      Chamberlain Fellow,  
Lawrence Berkeley National Laboratory
- Nov. 2008 – Feb. 2009    Postdoctoral Associate, Rutgers University
- Jan. 2003 – Oct. 2008    Graduate Assistant, Rutgers University
- Sep. 2002 – Dec. 2002    Teaching Assistant, Rutgers University

## Experiments

- 2009-present      A Toroidal LHC Apparatus (ATLAS), CERN
- 2003-2010      The Collider Detector at Fermilab (CDF), Fermilab

## Honors & Awards

- 2009 The Richard J Plano Dissertation Prize for a Ph.D. Dissertation.
- 2001 Prof. D.G Dhavale award for excellence in experimental physics.

## Publications

ATLAS Author April 2010 to present.

ATLAS Publications with significant contributions :

- “Search for Strong Gravity Signatures in Same-sign Dimuon Final States using the ATLAS detector at the LHC”, [arXiv:1111.0080](#) [hep-ex], submitted to Physics Letters B.
- “Search for strong gravity effects in same-sign dimuon final states”, [ATLAS-CONF-2011-065](#)

CDF Author July 2005 to February 2010.

CDF Publications with significant contributions :

- “Search for Supersymmetry in ppbar Collisions at  $\sqrt{s} = 1.96$  TeV using the Trilepton Signature of Chargino-Neutralino Production”, *Phys. Rev. Lett* **101** , 251801 (2008)
- “Search for Chargino-Neutralino Production in ppbar Collisions at  $\sqrt{s} = 1.96$  TeV”, *Phys. Rev. Lett.* **99** , 191806 (2007)

Other Publications :

- M. Garcia-Sciveres *et al*, “The FE-I4 pixel readout integrated circuit”, *Nucl. Inst. and Meth. A*, **636** (2011), p S155-S159
- **Sourabh Dube**, Julian Glatzer, Sunil Somalwar, Alexander Sood, “Addressing the Multi-Channel Inverse Problem at High Energy Colliders: A Model Independent Approach to the Search for New Physics with Trileptons”, [arXiv:0808.1605](#) [hep-ph]

## Mentoring

- (2010) Mentor for undergraduate student as part of the [SULI](#) program. Title of student's report: "Testing Setups for the FE-I4"

## Selected Invited Talks

- ["Search for Extra Dimensions at ATLAS"](#), Beyond the Standard Model: Results with the 7 TeV LHC Collision Data, Trieste, Italy, September 2011
- ["Search for Supersymmetry at CDF using Trileptons,"](#) Research Progress Meeting, Lawrence Berkeley Laboratory, December 2008
- ["Search for Supersymmetry at CDF using Trileptons,"](#) HEP seminar  
Ohio State University, December 2008  
University of Massachusetts, Amherst, November 2008  
University of Rochester, October 2008  
University of Pennsylvania, August 2008  
Brookhaven National Laboratory, May 2008
- ["Search for Chargino-Neutralino at the Tevatron,"](#) The 16th International Conference on Supersymmetry and the Unification of Fundamental Interactions (SUSY08), Seoul, Korea, June 2008
- ["Search for Supersymmetry using the trilepton signature,"](#) The 2008 Phenomenology Symposium (PHENO 08) Madison, Wisconsin, April 2008
- ["Searches for New Physics in Lepton Final States,"](#) The XLIIIrd Rencontres de Moriond for Electroweak Interactions and Unified Theories (Moriond EW 2008) La Thuile, Italy, March 2008
- ["Search for Supersymmetry at CDF using Trileptons,"](#) Joint Experimental-Theoretical Seminar (Wine & Cheese Seminar)  
Fermilab, Batavia, February 2008

## **Invited Outreach Talks**

- “HEP in a nutshell, CERN, LHC, ATLAS,” Seminar, Advanced Materials Group, National Chemical Laboratory, Pune, India, September 2010.
- “Inward Bound: Experimental High Energy Physics,” Fergusson-Astroclub Seminar, Fergusson College, Pune, India, July 2006

## **Relevant Activities**

Completed 'Inter-University Diploma in Scientific Computing and Applications', at Dept. of Computer Science, Fergusson College, Pune. (2000)

Participated in Young Astronomer's meet 2000, at Inter-University Centre for Astronomy and AstroPhysics (IUCAA), Pune.

Co-organizer of exhibitions 'Apollo missions to the Moon' (1998) and 'Missions to Mars' (1999) at Dept. of Physics, Fergusson College